PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference RLL-318WO			ent's file reference	FOR FURTHER A	CTION		n of Transmittal of International amination Report (Form PCT/IPEA/416)	
International application No. PCT/IB 03/05614				International filing date	(day/mont	h/year)	Priority date (day/month/year) 16.12.2002	
C0.	International Patent Classification (IPC) or both national classification and IPC C07D401/00, C07D401/12							
	Applicant RANBAXY LABORATORIES LIMITED et al.							
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
3.	This report contains indications relating to the following items:							
	I ☐ Basis of the opinion							
	B		Priority					
	111	\boxtimes	Non-establishment of o	pinion with regard to r	novelty, in	ventive step ar	nd industrial applicability	
	IV		Lack of unity of invention					
	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			entive step or industrial applicability;				
	VI		Certain documents cited	d				
	VII Certain defects in the international application							
	VIII Certain observations on the international application							
Date of submission of the demand					Date of c	ompletion of this	report	
15.0	15.07.2004				11.04.2	:005		
Name	Name and mailing address of the international preliminary examining authority:				Authorize	d Officer	nes Palan-	\neg
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				3 epmu d	Schmid Telephon	, A e No. +49 89 23	99-8591	Pu

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	i.	Basis	of the	report
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2.

3.

4.

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

De	scription, Pages					
1-1	0	as originally filed				
Cla	ims, Numbers					
1-5	3	as originally filed				
Dra	wings, Sheets					
1/6	-6 <i>1</i> 6	as originally filed				
With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:				
	the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
	the language of pub	lication of the international application (under Rule 48.3(b)).				
	the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
Wit	h regard to any nucl e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
	contained in the inte	rnational application in written form.				
	filed together with th	e international application in computer readable form.				
	furnished subsequer	ntly to this Authority in written form.				
	furnished subsequer	ntly to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
The amendments have resulted in the cancellation of:						
	the description,	pages:				
	the claims,	Nos.:				
	the drawings,	sheets:				

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5. This report has been established as if (some of) the amendments had not bee been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)						
6.	Add	itional observations, if necessa	ıry:					
Ш.	Nor	n-establishment of opinion w	ith reg	ard to nove	lty, inventive step and industrial applicability			
1.		The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of:						
	☐ the entire international application,							
	☒	claims Nos. 45-47						
because: the said international application, or the said claims Nos. 45-47 relate to the following subjectives not require an international preliminary examination (specify): see separate sheet								
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so und that no meaningful opinion could be formed (specify):							
the claims, or said claims Nos. are so inadequately supported by the description that no meaning could be formed.				ly supported by the description that no meaningful opinion				
		no international search report	has be	en establish	ed for the said claims Nos.			
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:							
☐ the written form has not been furnished or does not comply with the Standard.			ot comply with the Standard.					
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.			
٧.		leasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; itations and explanations supporting such statement						
1.	Stat	ement						
	Nov	elty (N)	Yes: No:	Claims Claims	1-53			
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-53			
	Indu	istrial applicability (IA)	Yes: No:	Claims Claims	1-44,48-53			

2. Citations and explanations

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see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 45-47 relate to subject-matter considered by this Authority to be covered 1) by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(l) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- US-A-5 045 552 (SHIMOMURA NAOYUKI ET AL) 3 September 1991 (1991-09-1) 03) [D2] discloses in example 33 the sodium salt of rabeprazole, whereas in column 4, line 10 and column 5, lines 58-63 it is disclosed that also pharmeutically acceptable salts like calcium salts are within the scope of D2.
 - PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19, 5 June 2001 (2001-06-05) & JP 2001 039975 A (EISAI CO LTD), 13 February 2001 (2001-02-13) [D1] discloses the crystalline salt of rabeprazole sodium.
 - Looking at the the present claims, it becomes evident that the present subjectmatter could be considered as formally novel over the prior art (Article 33(2) PCT).
- However, a skilled person, looking for rabeprazole salts alternative to the explictly 2) known ones, would be guided by D2 (cf. column 5, lines 58-63) to prepare among others calcium salts which can be done a skilled person by routine methods perfectly known to an organic chemist. Moreover, it has to be noted that the applicant has not shown any effect, as regards possible superior properties of the calcium salt of rabeprazole.
 - Therefore, the present subject-matter does not involve an inventive step with regard to Article 33(3) PCT.
- For the assessment of the present claims 45-47 on the question whether they are 3)

EXAMINATION REPORT - SEPARATE SHEET

industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

4) The applicant uses in present claim 18 the expression "lower alkanol" which might be considered as unclear in the regional phase according to Article 6 PCT and which should be replaced by present claim 19.